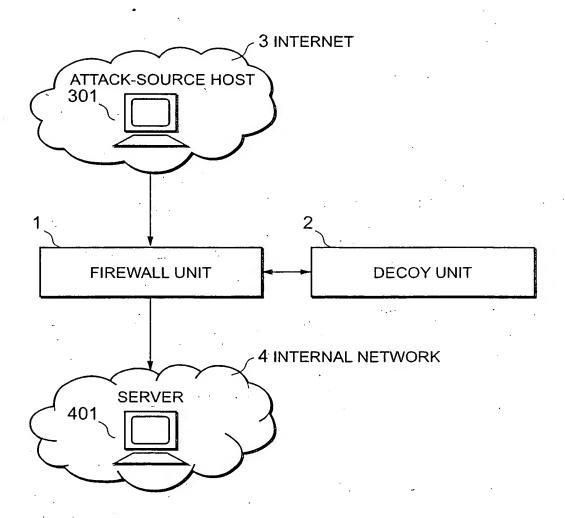


FIG. 1



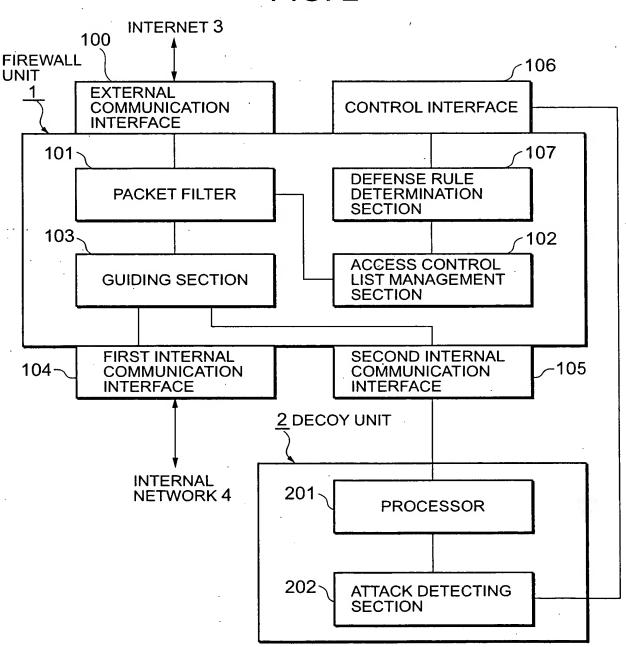
DOCKET No.: 8046-1041 APPLN No.: 10/643,864

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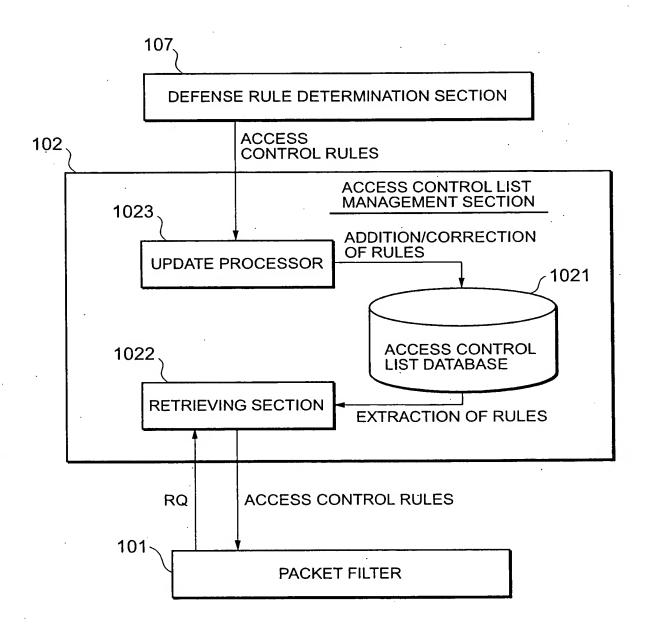
FIG. 2



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FIG. 3



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# FIG. 4

1021

ACCESS CONTROL L	IST DATABASE	
SOURCE IP ADDRESS (SRC)	DESTINATION IP ADDRESS (DST)	PACKET FILTERING PROCESS (PROC)
*	1.2.3.1	ACCEPT
*	1.2.3.2	ACCEPT
12.34.1.1	*	ACCEPT
*	1.2.3.3	DROP
*	*	DENY

\*: MATCHED WITH ARBITRARY ADDRESS

ACCEPT: ACCEPTANCE OF PACKET

DENY: DENIAL OF PACKET (WITH ICMP ERROR NOTIFICATION)

DROP: DROPPING OF PACKET (WITHOUT ICMP ERROR NOTIFICATION)

FIG. 5

### **GUIDING LIST**

1. 2. 3. 1 1. 2. 3. 2 1. 2. 3. 3 1. 2. 3. 5 1. 2. 3. 6

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DEFENSE RULE DET	RULE DETERMINATION SECTION		•
ATTACK TYPE	SOURCE IP ADDRESS (SRC)	DESTINATION IP ADDRESS (DST)	PACKET FILTERING PROCESS (PROC)
RECON	<u> </u>	1	-
INTRUSION	\${SRC_IP_ADDRESS}	*	DROP
DESTRUCTION	\${SRC_IP_ADDRESS}	*	DROP

-: WITHOUT ANY ADDRESS (NO PROCESSING) \${} : VARIABLE TO BE REPLACED

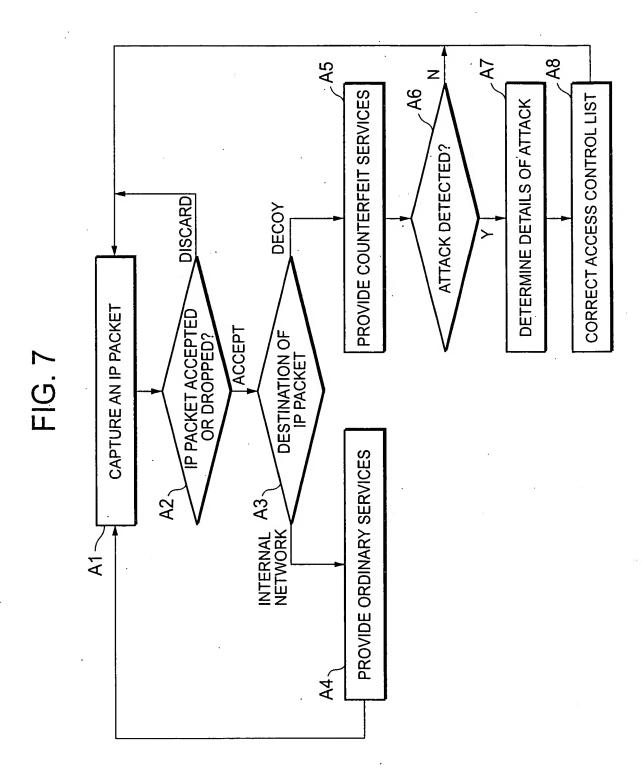
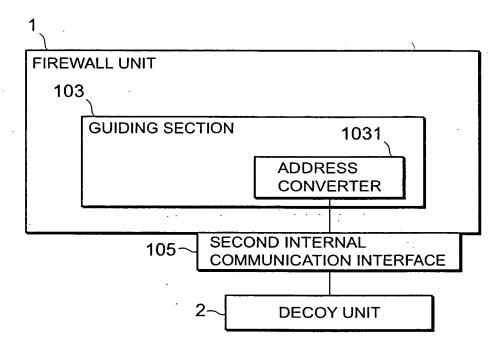


FIG. 8



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FIG. 9

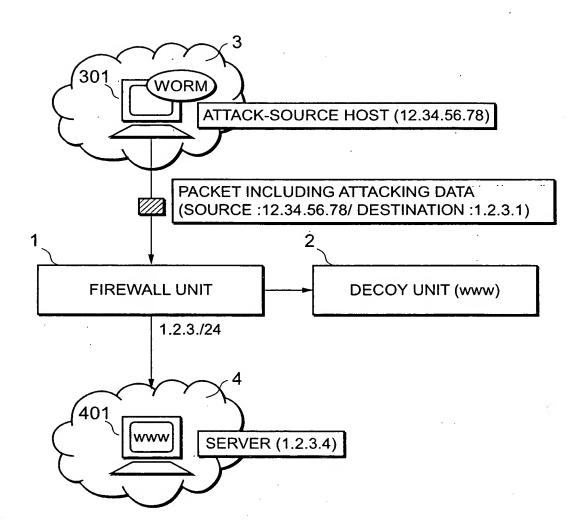
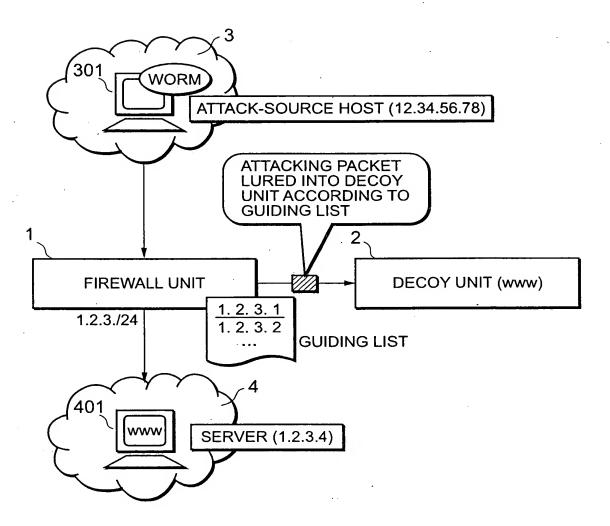


FIG. 10



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FIG. 11

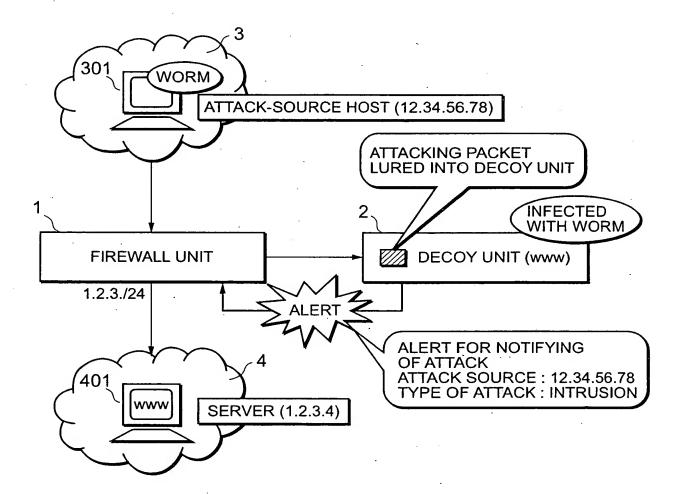
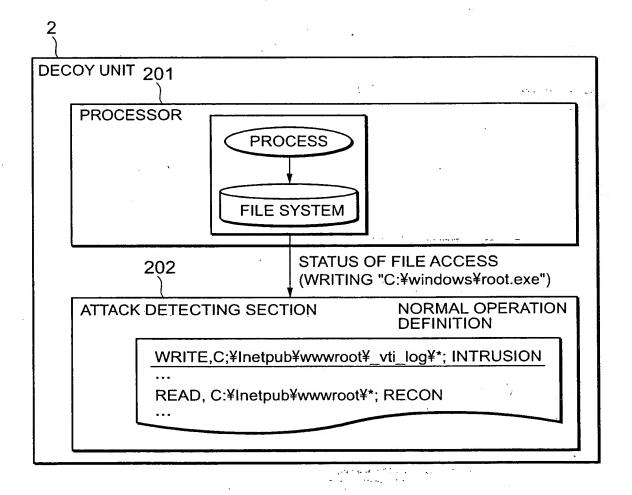


FIG. 12

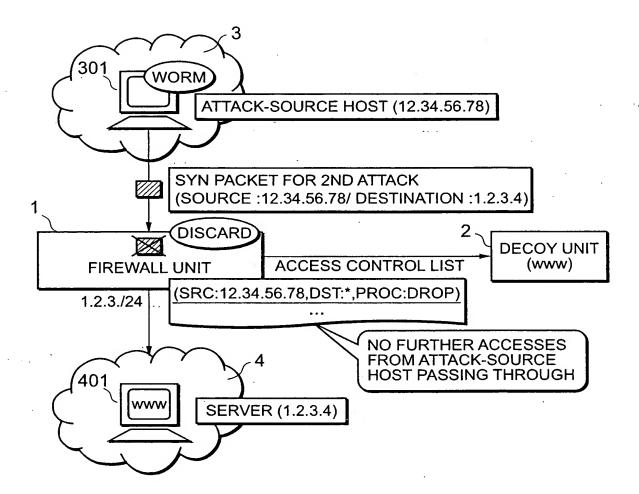


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OL LIST_	PACKET FILTERING PROCESS (PROC)	DROP	ACCEPT	ACCEPT.	ACCEPT	DROP	DENY
UPDATE OF ACCESS CONTROL LIST	DESTINATION IP ADDRESS (DST)	*	1.2.3.1	1.2.3.2	*	1.2.3.3	*
UPDATI	SOURCE IP ADDRESS (SRC)	12.34.56.78	*	*	12.34.1.1	*	*

ADDITION [

FIG. 14

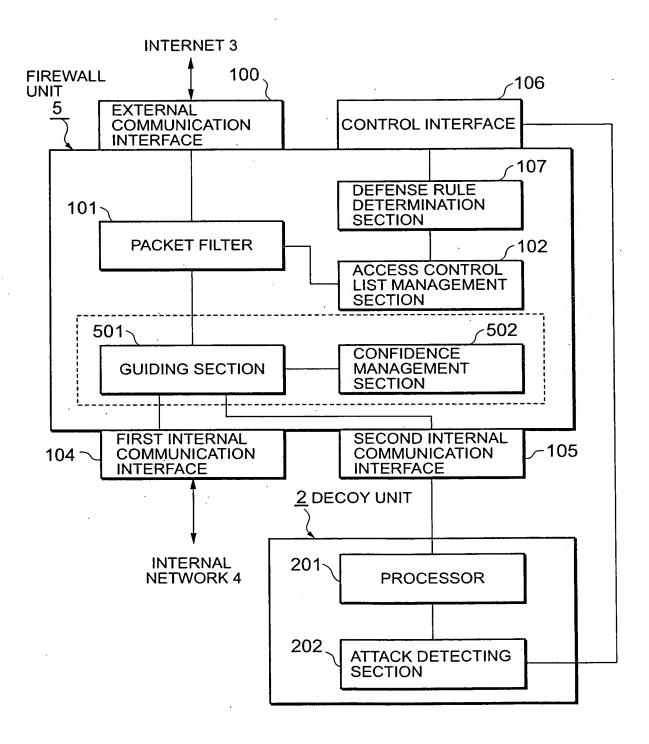


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FIG. 15



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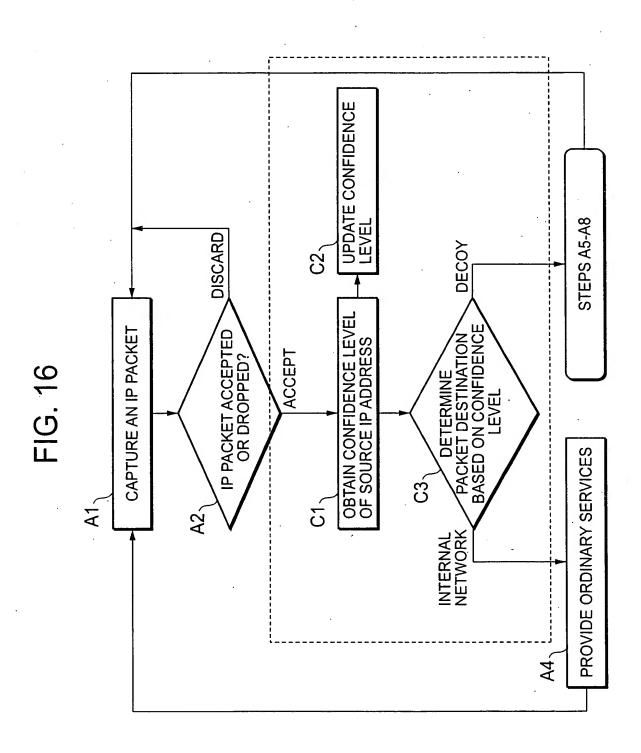
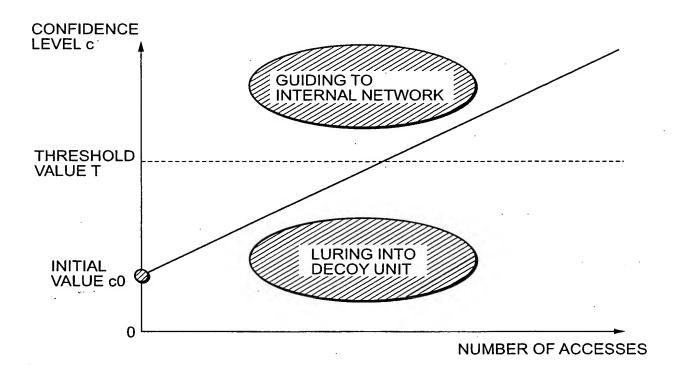


FIG. 17



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### FIG. 18A

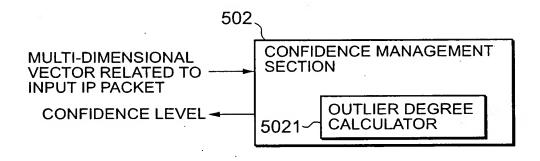


FIG. 18B

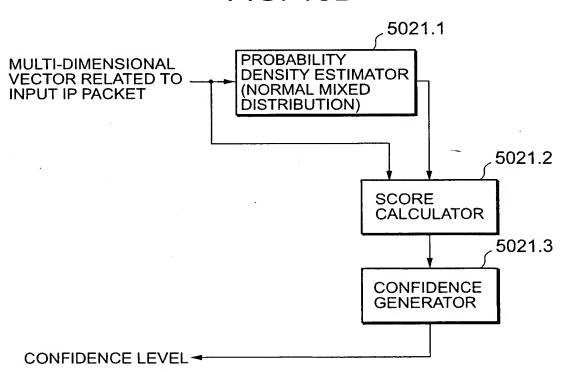
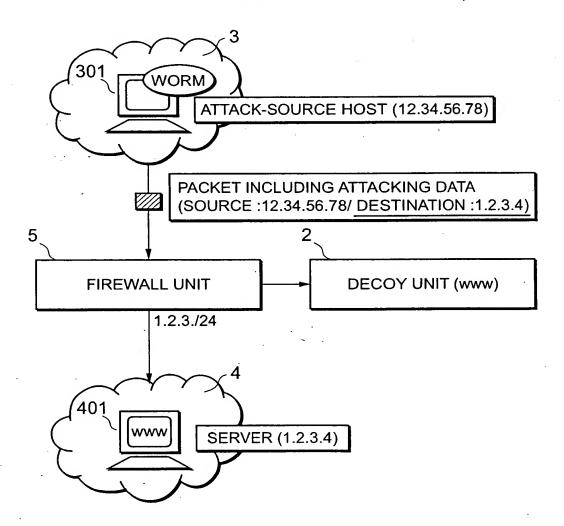


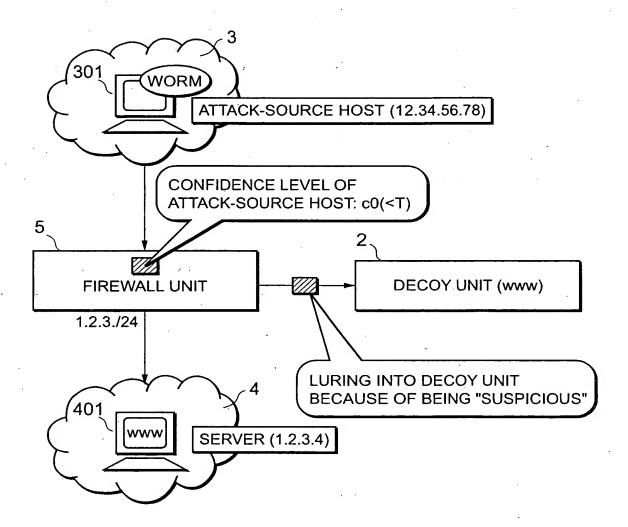
FIG. 19



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FIG. 20



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FIG. 21

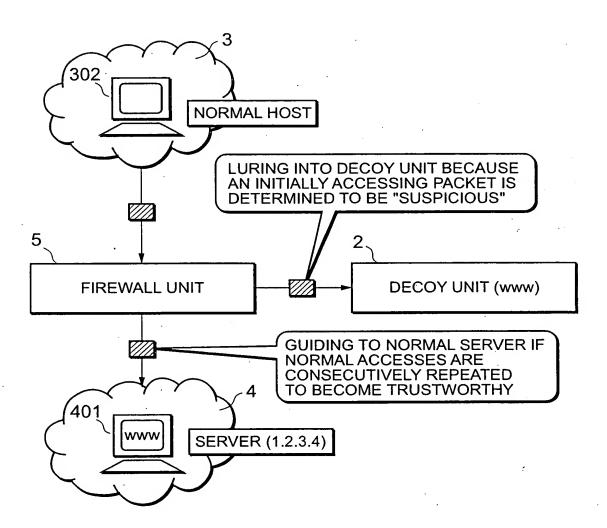


FIG. 22

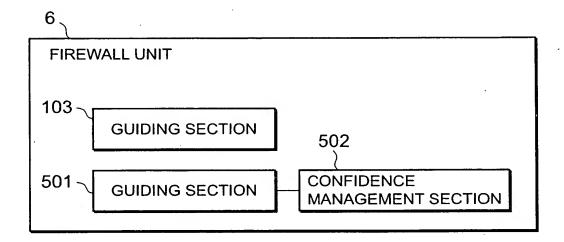
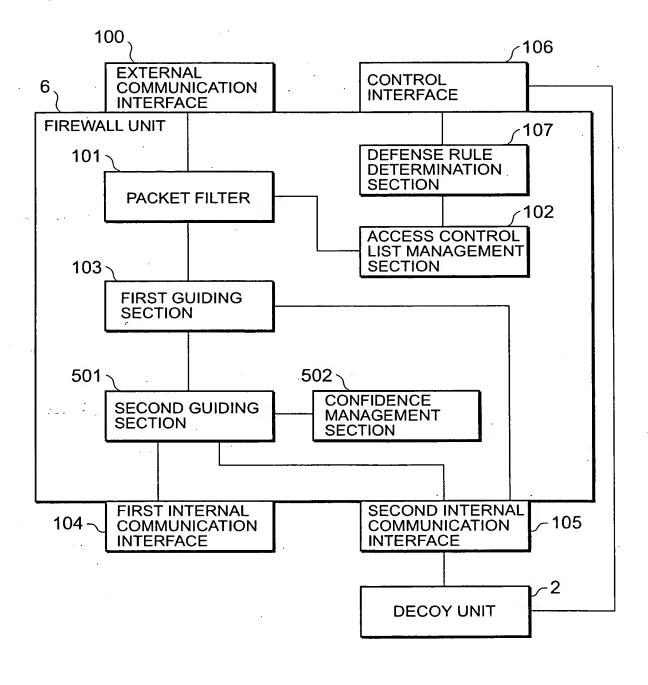


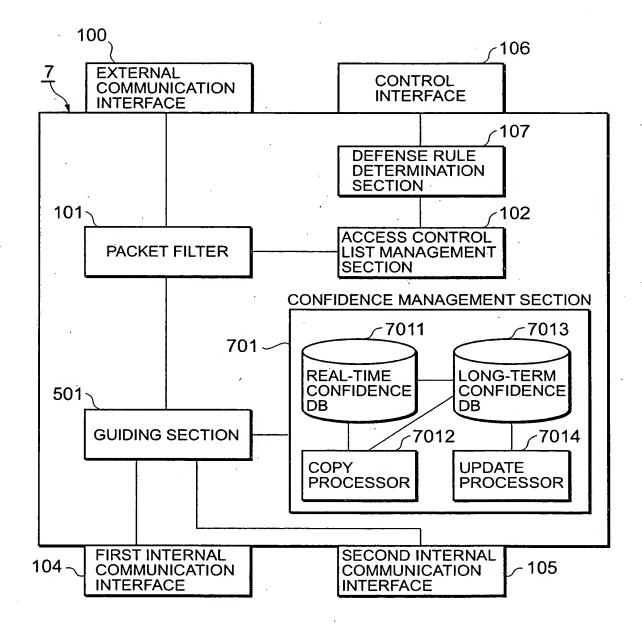
FIG. 23

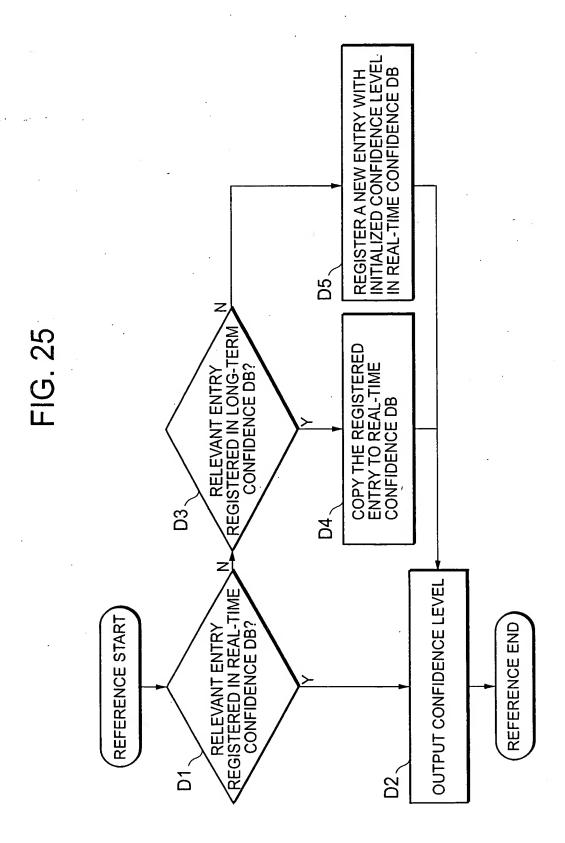


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FIG. 24

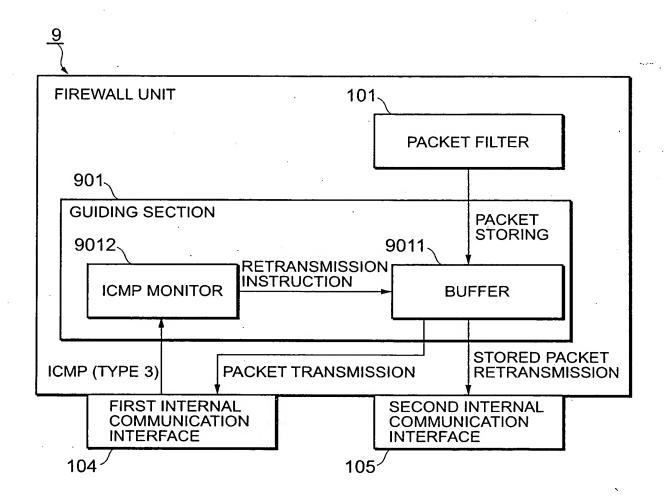


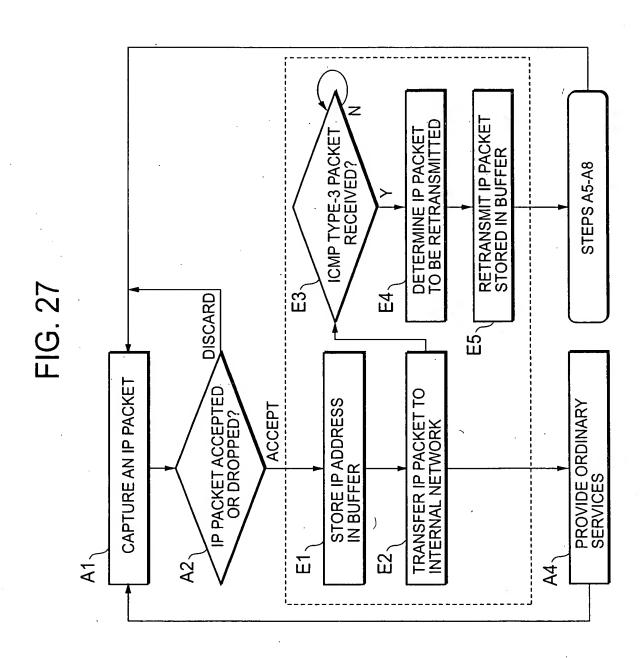


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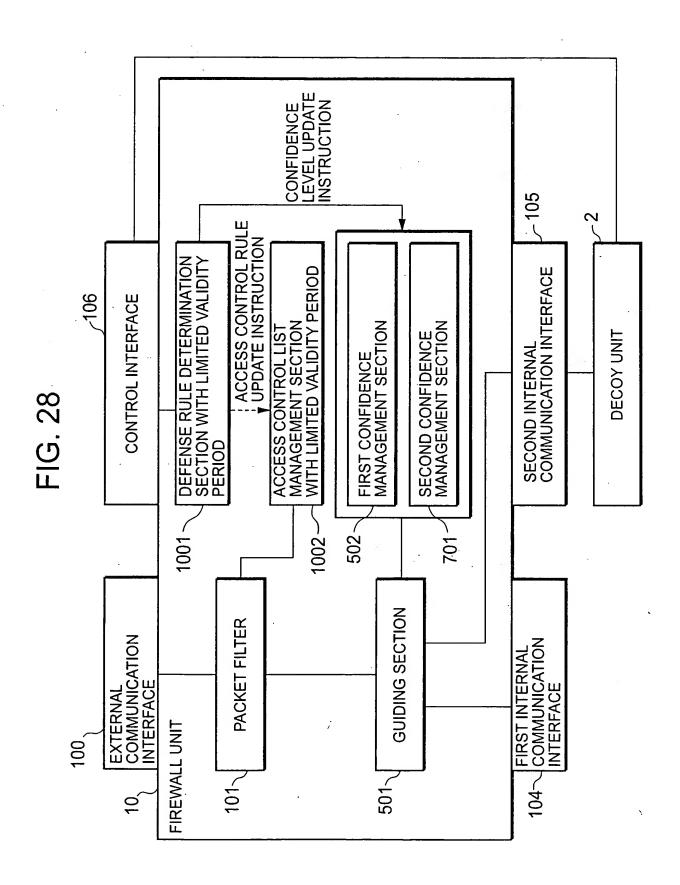
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FIG. 26





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FIG. 29

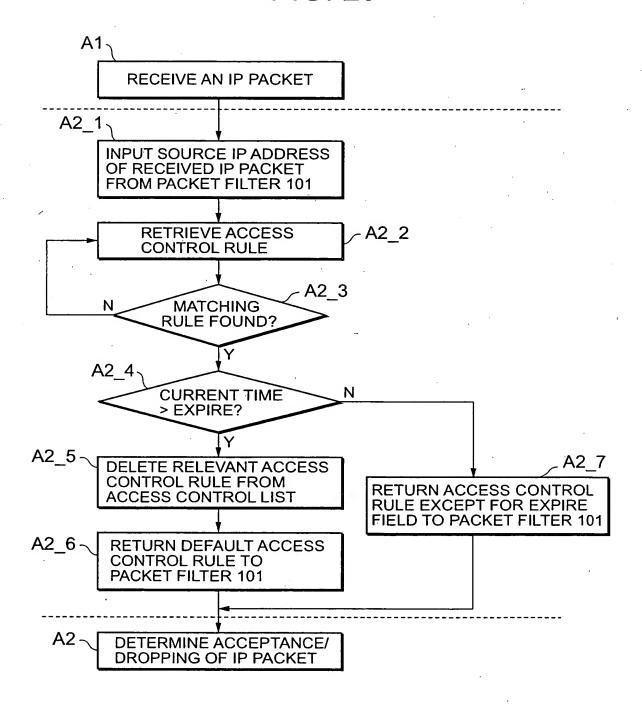
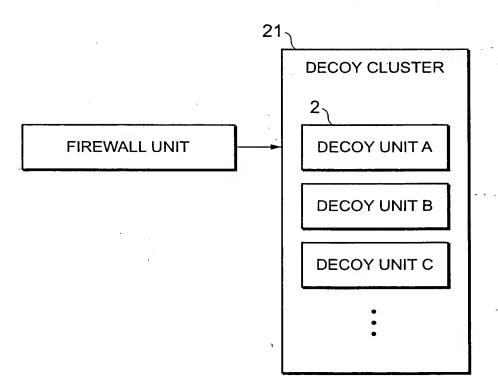


FIG. 30



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FIG. 31

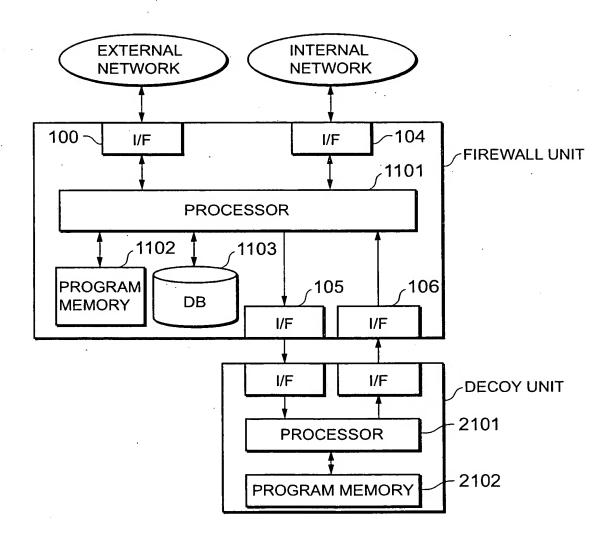
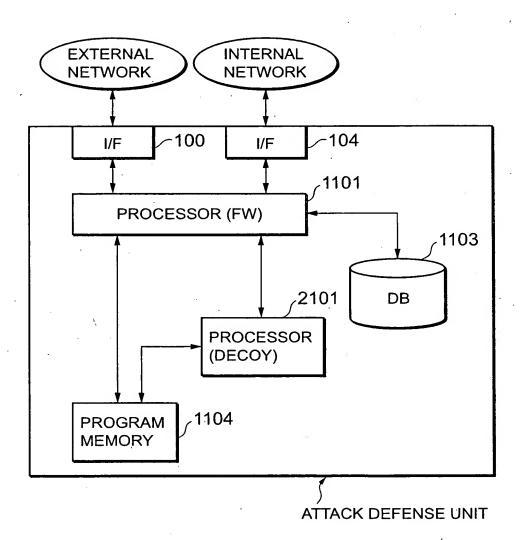


FIG. 32



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FIG. 33

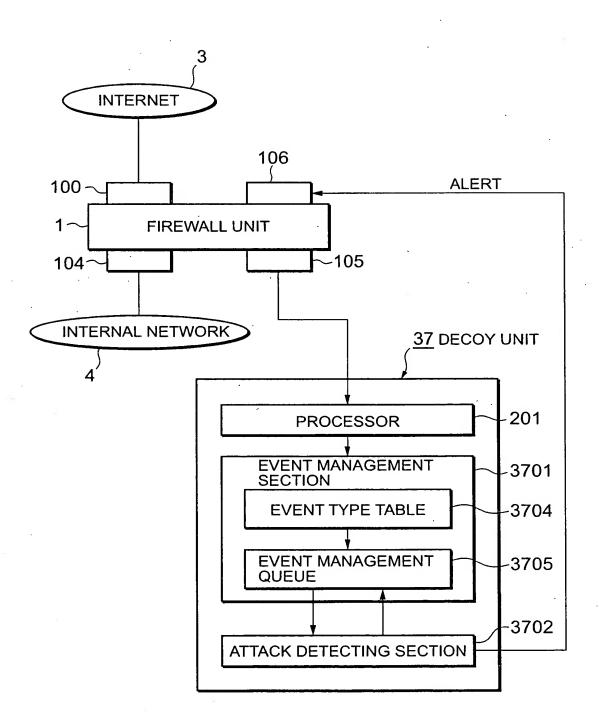
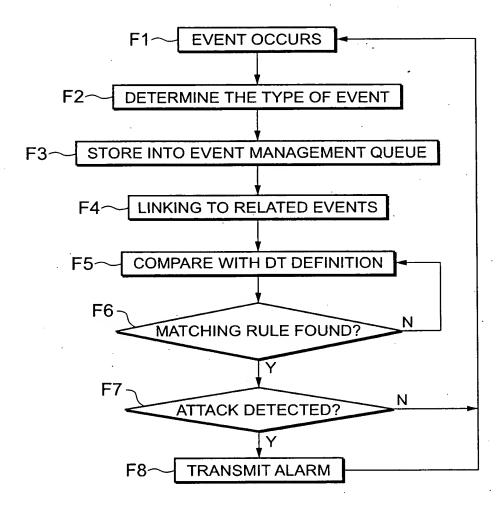


FIG. 34



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FIG. 35

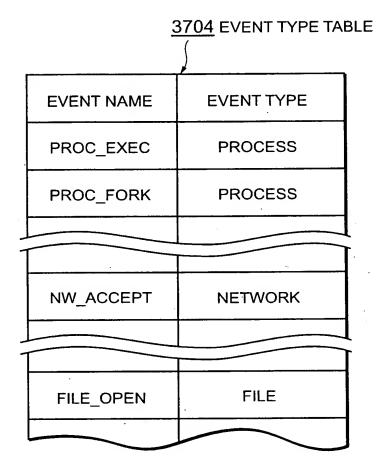
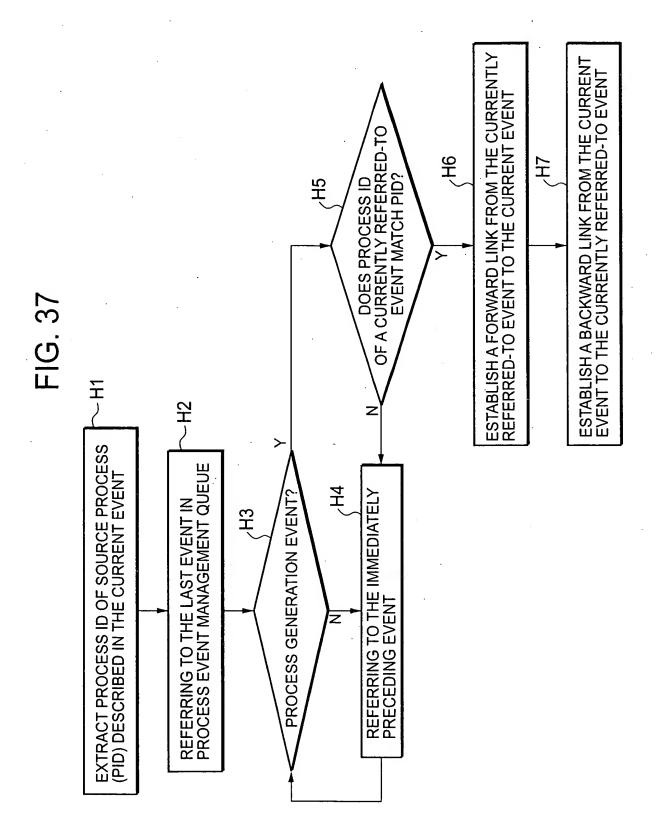


FIG. 36

3701 EVENT MANAGEMENT SECTION

"NETWORK" EVENT MANAGEMENT QUEUE
"PROCESS" EVENT MANAGEMENT QUEUE
"FILE" EVENT MANAGEMENT QUEUE



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## FIG. 38

EVENT-CONTEXT COMBINATION = (E, B U F)



FIG. 39

### 4101 DT DEFINITION FILE

#(RULE 1) ALLOW WWW SERVER TO WRITE LOG.

0.0.0.0/0,<Inetinfo.exe>,FILE\_WRITE,C:\footnote{\text{winnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footnote{\text{yunnt}}\footno

#(RULE 3) ALLOW REGISTERED CGI THAT IS A SUBSYSTEM OF WWW SERVER TO UPDATE DATABASE.

0.0.0.0/0,<Inetinfo.exe><view.exe>\$,FILE READ,C:\footnote{\text{READ}} data\footnote{\text{Client.db}};ALLOW

#(RULE 5) ALLOW FTP SERVER TO WRITE ONTO CONTENT REGION
# BUT ONLY FROM MANAGEMENT DOMAIN 10.56.192.0/24.
10.56.192.0/24.^<ftpd.exe>+ \$,FILE\_WRITE,C:\(\frac{1}{2}\)Inetpub\(\frac{1}{2}\)Wwww.root\(\frac{1}{2}\).\*;ALLOW

#(RULE 6) WWW SERVER DOES NOT WRITE TO FILE UNLESS SPECIFICALLY ALLOWED

0.0.0.0/0,<inetinfo.exe>.FILE\_WRITE,.\*;DENY

#(RULE 7) INHIBIT ACCESS TO DATABASE REGION FROM OTHER THAN ALLOWED PROGRAMS

0.0.0.0/0,.\*,.\*,FILE READIFILE WRITE,C:\u00e4data\u00e4.\*;DENY

#(RULE 8) REWRITING OF CONTENT REGION BY OTHER THAN

ALLOWED PROGRAMS IS AN ATTACK 0.0.0.0/0,.\*..\*,FILE WRITE,C:\(\)Inetpub\(\)\(\)\(\)www.wroot\(\)\(\).\*;DENY

#(DEFAULT RULE) IF NO MATCH IS FOUND FOR ANY RULE, THEN "ALLOWANCE"

**DEFAULT:ALLOW** 

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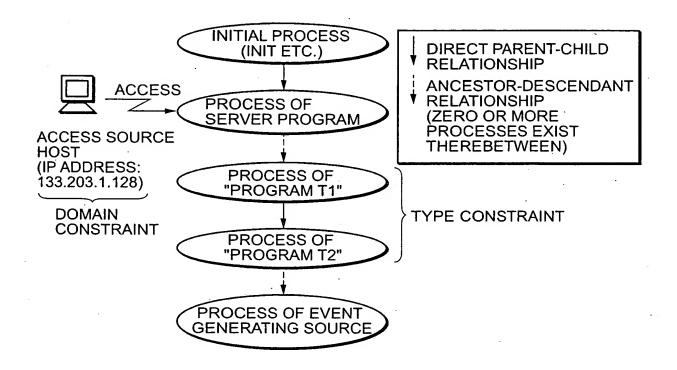


FIG. 41

	3501 (
	EVENT NAME : NW_ACCEPT
	PARAMETER : ("src_addr=133.207.57.2","src_port=13485")
	RETURNED VALUE : "fd=15"
	SOURCE PROCESS ID : 709
	ADDITION
NETWOR	RK EVENT MANAGEMENT QUEUE
PROCES	S EVENT MANAGEMENT QUEUE
FIL	E EVENT MANAGEMENT QUEUE

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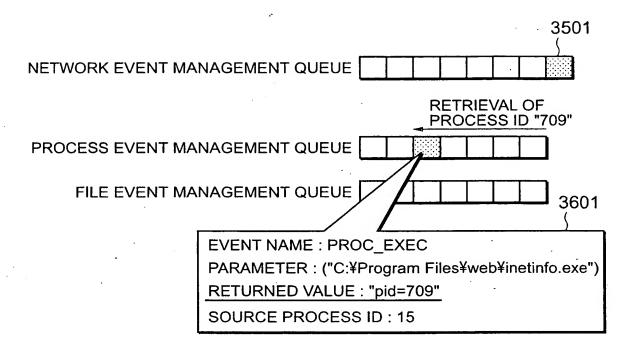


FIG. 43

	3501 (
NETWORK EVENT MANAGEMENT QUEUE	
	FORWARD LINK 3601 BACKWARD
PROCESS EVENT MANAGEMENT QUEUE	LINK
FILE EVENT MANAGEMENT QUEUE	

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FIG. 44

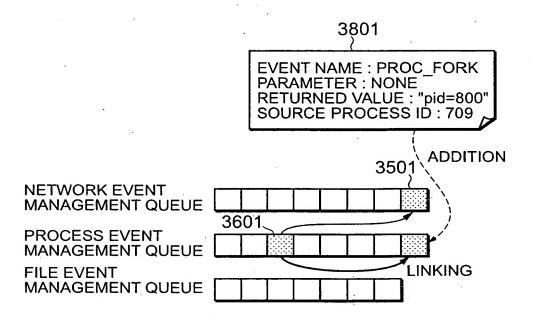
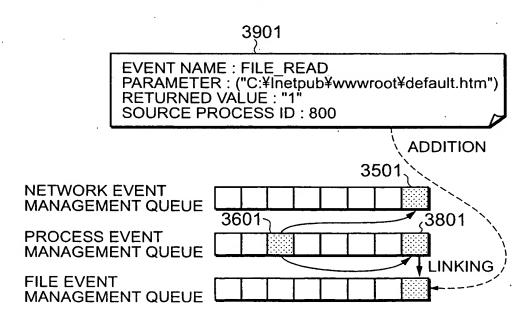


FIG. 45



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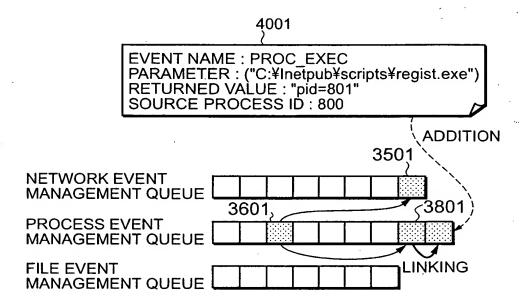
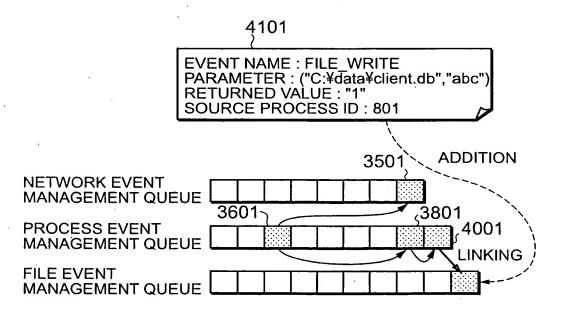


FIG. 47



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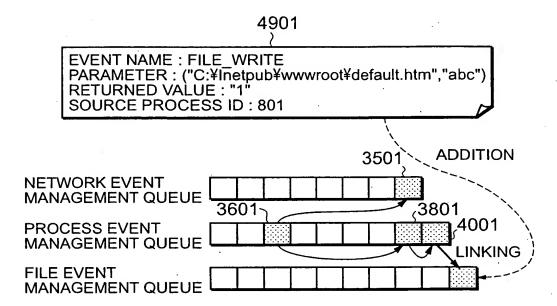
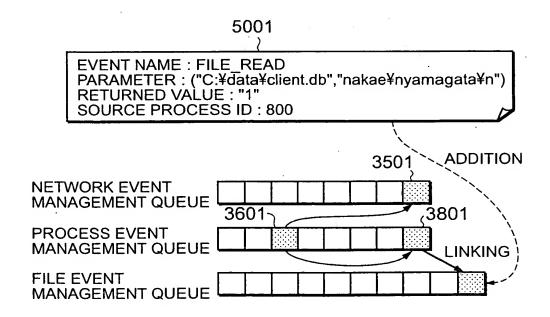
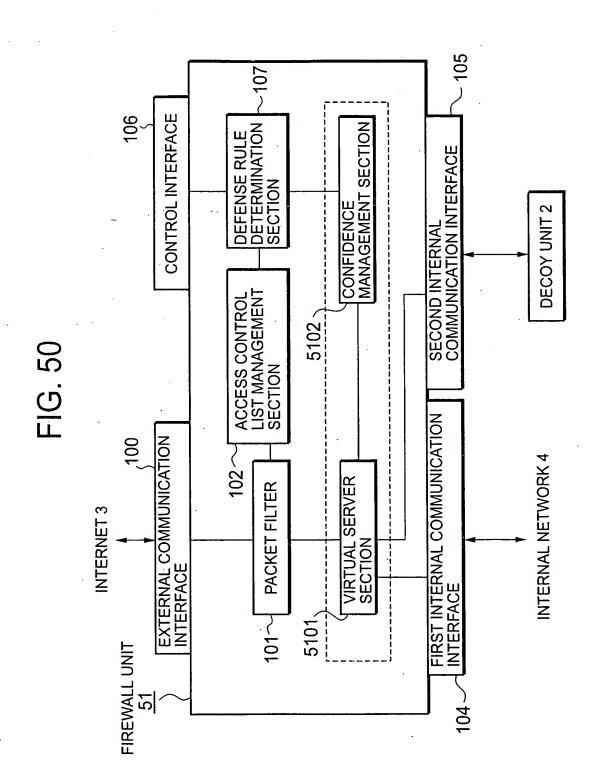


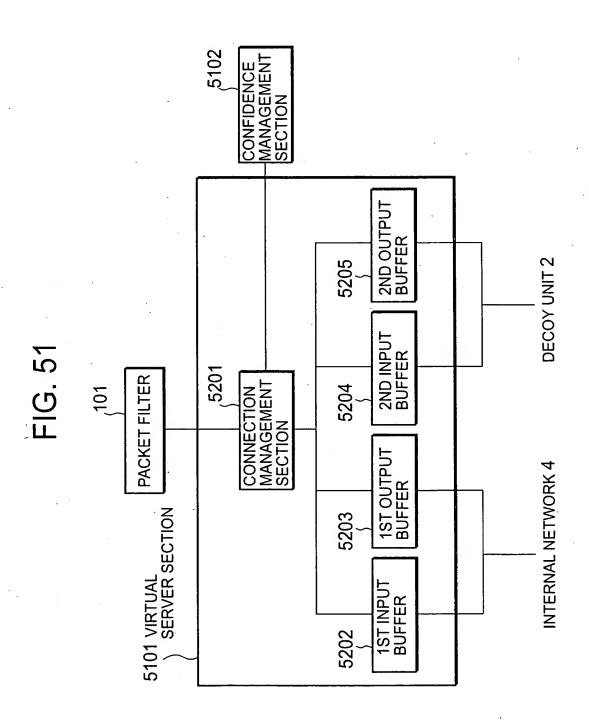
FIG. 49



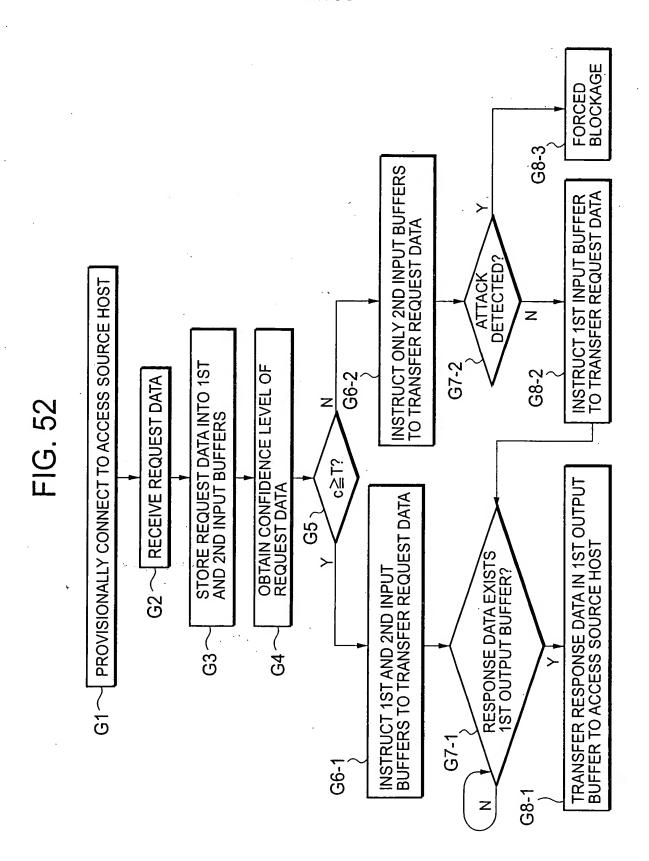
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FIG. 53

REQUEST DATA	CONFIDENCE LEVEL
D0	1
D1	0
Dn ·	1

FIG. 54

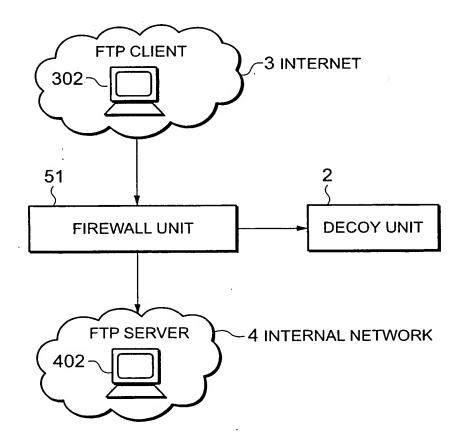
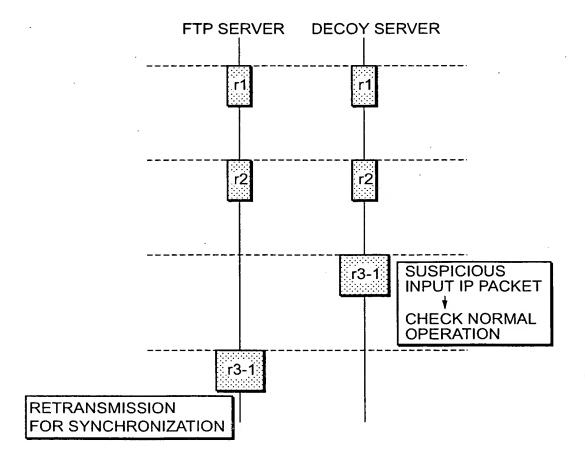


FIG. 55

REQUEST DATA	CONFIDENCE LEVEL
D0	1
D1	0
	• • •
1	0

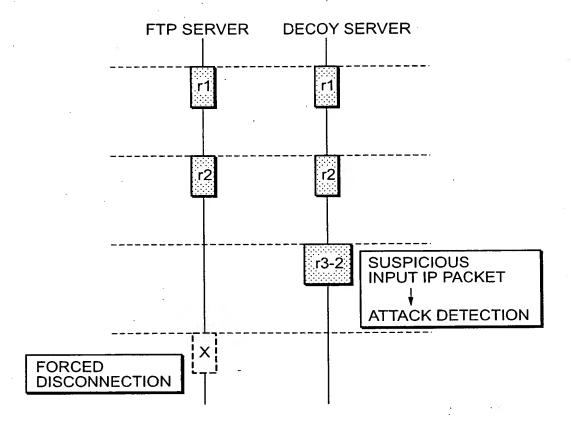
FIG. 56



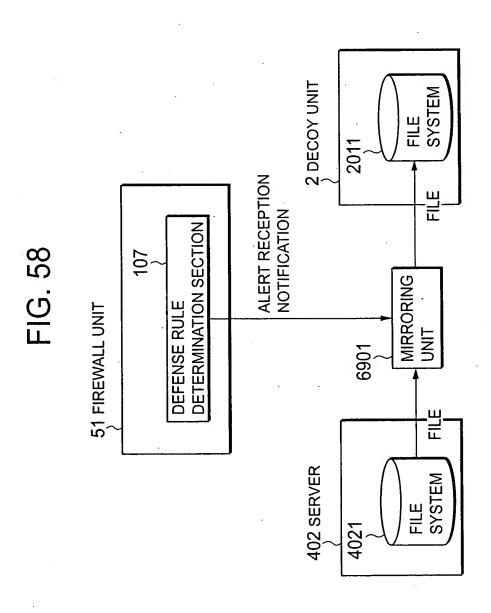
DOCKET NO.: 8046-1041
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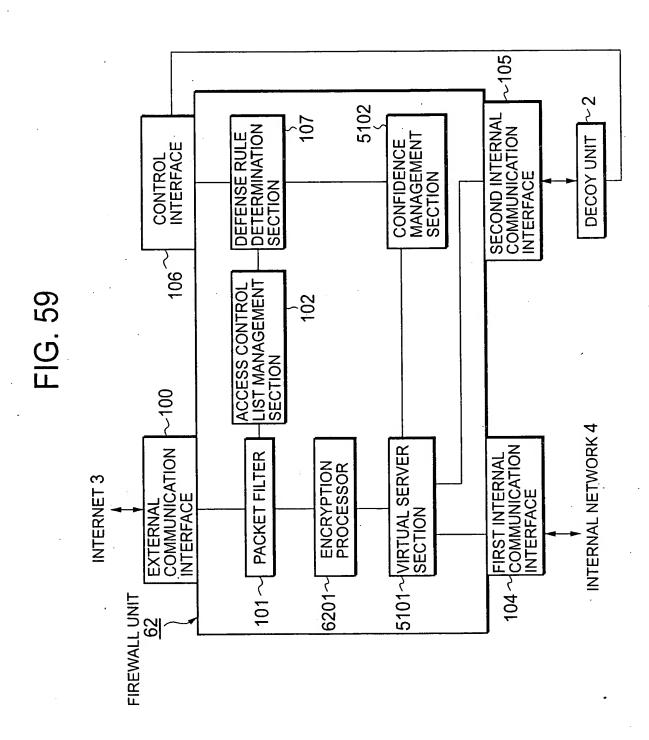
FIG. 57



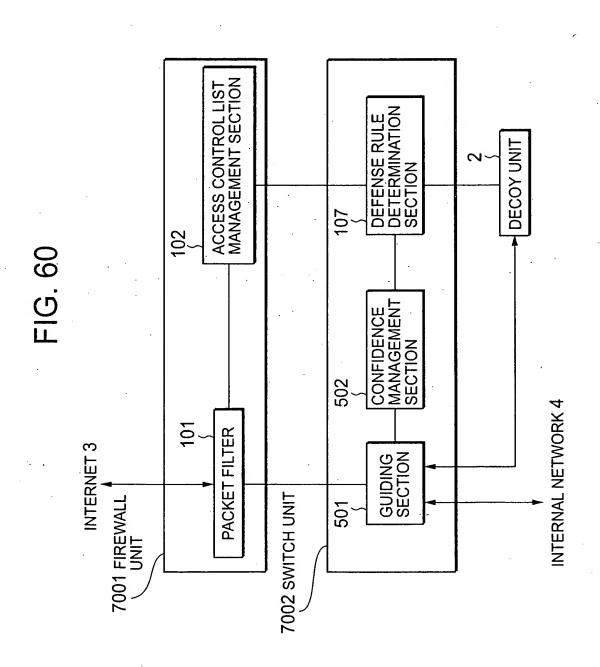
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FIG. 61.

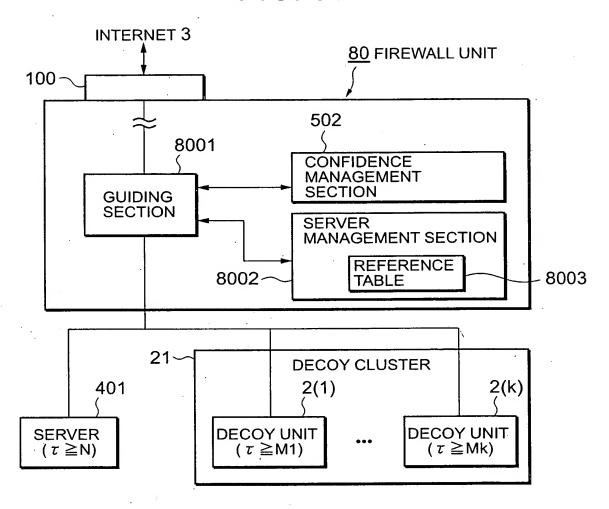
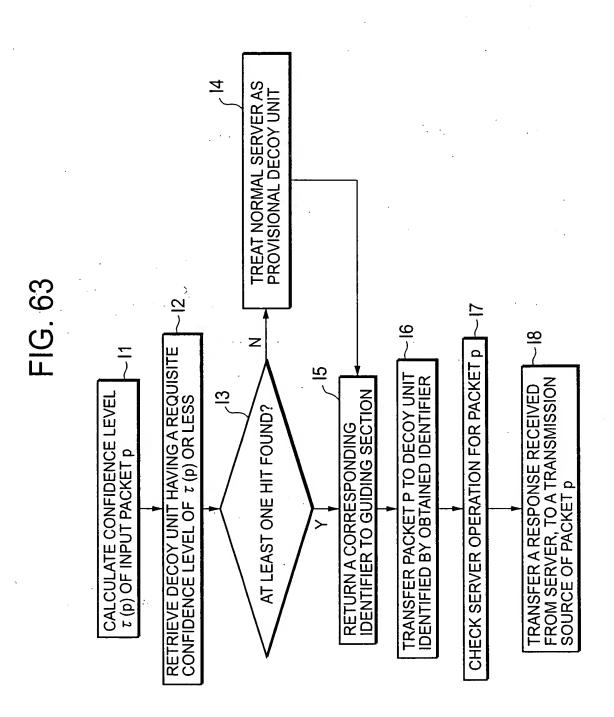
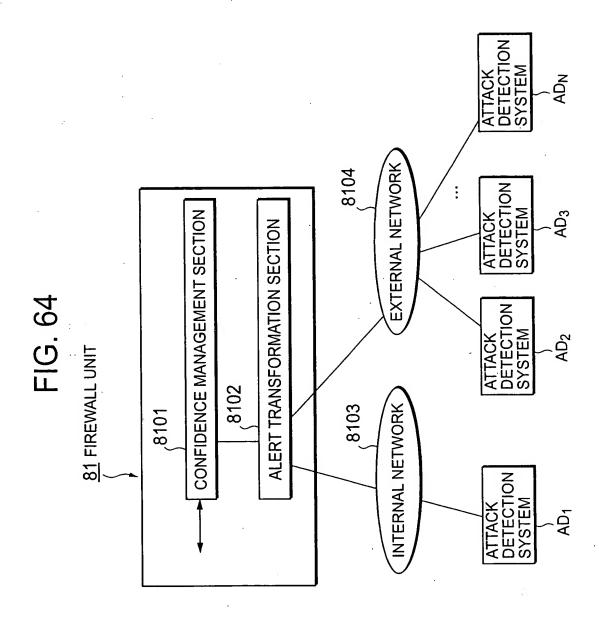


FIG. 62

8003 REFERENCE TABLE
REQUISITE CONFIDENCE LEVEL
M1
M2
Mk





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FIG. 65

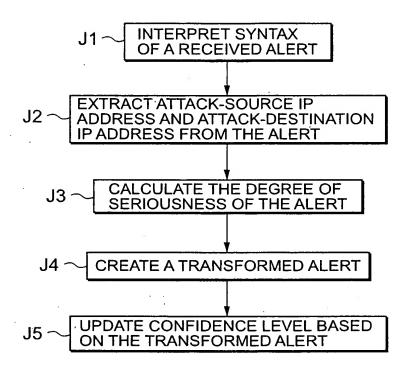


FIG. 66

